PATENT COOPERATION TREA

From the

INTERNATIONAL PRELIMINARY EXAMINING

To:

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PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

IMPORTANT NOTIFICATION

Date of mailing

(day/month/year) 20 JANUARY 2005 (20.01.2005)

Applicant's or agent's file reference SH-18951-PCT

International application No.

International filing date (day/month/year) Priority

Priority date (day/months/year)

PCT/KR2003/001949

24 SEPTEMBER 2003 (24.09.2003)

26 SEPTEMBER 2002 (26.09.2002)

Applicant

SAMSUNG ELECTRONICS CO., LTD. et al

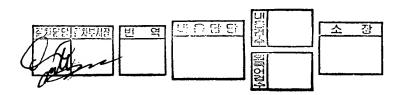
- 1. The applicant is hereby notified that International Preliminary Examining Authority transmits here with the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report(but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details in the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.



Name and mailing address of the IPEA/KR

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Authorized officer

COMMISSIONER

Telephone No. 82-42-481-5131





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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference SH-18951-PCT			onofTransmittalofInternationalPreliminary Report (Form PCT/IPEA/416)	
International application No. PCT/KR2003/001949	International filing date(day/mo 24 SEPTEMBER 2003 (Priority date (day/mont) 26 SEPTEMBER 2002	• •
International Patent Classification (IPC) IPC7 G11B 5/62 Applicant				
SAMSUNG ELECTRONICS (CO., LTD. et al			
 This international preliminary examples and is transmitted to the applicant This REPORT consists of a total of this report is also accompanded and are the basis for the consists of the consists of a total of the consists of a total of the consists of the consi	according to Article 36.	ing this cover sheet	laims and/or drawings	s which have been
	e Administrative Instructions und			
IV Lack of unity of inverse V X Reasoned statement citations and explana VI Certain documents c VII Certain defects in the VIII Certain observations	of opinion with regard to novelty, ention under Article 35(2) with regard ations supporting such statement ited e international application on the international application	to novelty, inventive	e step or industrial app	
Date of submission of the demand	Date of	of completion of this	s report	
29 MARCH 2004 (2	9.03.2004)	18 JANUARY 2	2005 (18.01.2005)	
Name and mailing address of the IPEA/k Korean Intellectual Property 920 Dunsan-dong, Seo-gu, i Republic of Korea Facsimile No. 82-42-472-7140	y Office Daejeon 302-701,	rized officer KIM, Yong Woong		900



nternational aplication No.

PCT/KR2003/001949

l.	Basis	of the report	
1.	With	regard to the elements of the international application:*	
	X	the international application as originally filed	
		the description:	
		pages	, as originally filed , filed with the demand
		pages, filed with the letter of	, med with the demand
		the claims;	
	Ш	pages	, as originally filed
		pages, as amended (together with any	
		pages, filed with the letter of	, filed with the demand
		the drawings:	
	L3	pages	, as originally filed
		pages	, filed with the demand
	Г—	pages, filed with the letter of	· · · · · · · · · · · · · · · · · · ·
	ш	the sequence listing part of the description:	as originally filed
		pagespages	, filed with the demand
	٠. :	pages, filed with the letter of	<u> </u>
2.	the i	pages pages pages , filed with the letter of regard to the language, all the elements marked above were available or furnished to this Authoritemational application was filed, unless otherwise indicated under this item. elements were available or furnished to this Authority in the following language the language of a translation furnished for the purposes of international search (under Rule 23.	which is
		the language of publication of the international application (under Rule 48.3(b)).	1(0)).
		the language of the translation furnished for the purposes of international preliminary examinations of the translation furnished for the purposes of international preliminary examinations.	nation(under Pules 55.2 and/
	لــا	or 55.3).	nation (under Kules 33.2 and
3.		h regard to any nucleotide and/or amino acid sequence disclosed in the international appli iminary examination was carried out on the basis of the sequence listing: contained inthe international application in written form.	cation, the international
	\exists	filed together with the international application in computer readable form.	4
	\exists	furnished subsequently to this Authority in written form.	
	\exists	furnished subsequently to this Authority in computer readable form	
		The statement that the subsequently furnished written sequence listing does not go bey	ond the disc losure in the
		international applicationas as filed has been furinshed.	
		The statement that the information recorded in computer readable form is identical to the w been furnished.	ritten sequence listing has
4.		The amendments have resulted in the cancellation of:	
		the description, pages	
		the claims, Nos.	
5.		the drawings, sheets	
		This report has been established as if (some of) the amendments had not been made, since go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**	they have been considered to
*	in thi	ncement sheets which have been furnished to the receiving Office in response to an invitation und s opinion as "originally filed." and are not annexed to this report since they do not contain 10.17).	
**	Any i	replacement sheet contàining such amendments must be referred to under item l and annexed to	this report.

INTERNATIONAL PRELIMINARY EXAMINATION

International aplication No.
PCT/KR2003/001949

٧.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	1-5	YES
		Claims		NO
	Inventive step (IS)	Claims	1-5	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-5	YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following document:

D1: US 2002-0154596 A1 (Wei-Chin Hsu et al.) 24 Oct. 2002

1. Novelty and Inventive Step

The subject matter of Claims 1-5 of the present invention discloses a high density recording medium with a super-resolution near-field structure including a sequential stack of the second dielectric layer, a recording layer, a protective layer, a mask layer; the first dielectric layer and a polycarbonate layer, wherein the mask layer comprises high melting point metal oxide or silicon oxide.

D1 describes a super-resolution recordable optical disk forming sequentially on the substrate under a dielectric layer, a mask layer, an interface layer, an organic dye layer, an isolation layer and a protection layer.

The subject matter of the present invention and that of the prior art document D1 are considered to be similar in that both of them relate to a structure of a recording medium using a super-resolution near-field structure. However, D1 does not include the mask layer comprising high melting point metal oxide or silicon oxide to generate a near field by optically or thermally inducing physical changes in the crystal-line structure, which gives a clear indication of an improvement in a high-density recording medium.

Therefore, the subject matter of the claims 1-5 of the present invention seems to be novel, and considered to involve an inventive step(PCT Article 33(2)-(3)).

2. Industrial Applicability

Claims 1-5 of the present invention meet the criteria set out in PCT Article 33(4) because they are directed to a high density recording medium. Therefore, the invention is considered to be industrially applicable.